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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/489,226	01/21/2000	Tomasz J. Cholewo	1168.004US1	5585
7590 07/07/2004 Lexmark International, Inc			EXAMINER	
			VIDA, MELANIE M	
740 West New Circle Road Lexington, KY 40550			ART UNIT	PAPER NUMBER
,			2626	
			DATE MAILED: 07/07/2004	9

Please find below and/or attached an Office communication concerning this application or proceeding.

- 2		Application No.	Applicant(s)			
Office Action Summary		Application No.	Applicant(s)			
		09/489,226	CHOLEWO ET AL.5			
		Examiner	Art Unit			
		Melanie M Vida	2626			
Period fo	The MAILING DATE of this communication or Reply	on appears on the cover sheet v	vith the correspondence address			
THE - External after - If the - If NC - Failure - Any	ORTENED STATUTORY PERIOD FOR IT MAILING DATE OF THIS COMMUNICAT insions of time may be available under the provisions of 37 (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) day to period for reply is specified above, the maximum statutory to to reply within the set or extended period for reply will, by reply received by the Office later than three months after the department adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC y statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on	26 April 2004.				
•	This action is FINAL . 2b)⊠ This action is non-final.					
3)	/ -					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-6,11,12,14,15,22 and 23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 4-6 is/are allowed. Claim(s) 1,11,12,14 and 22 is/are rejected. Claim(s) 2,3,15 and 23 is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
10)□	The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or b) objected to the drawing(s) be held in abeya correction is required if the drawin	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority documents of the priority documents. Copies of the certified copies of the application from the International Electric Action for the attached detailed Office action for the certification for the attached detailed Office action for the attached detailed Office action for the certification for the attached detailed Office action for the certification for the attached detailed Office action for the certification for the c	uments have been received. uments have been received in e priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO- er No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)			

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DETAILED ACTION

Response to Amendment

1. This action is responsive to an after final amendment filed 4/26/04. Claims 1-6, 11-12, 14-15, and 22-23 are pending. Claims 7-10 are cancelled. Claims 16-21 are cancelled. The finality of the office action has been withdrawn.

Response to Arguments

2. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. In view of the Applicant's remarks, it is agreed that Decker does not map CIELAB or other color space having a lightness component as described and claimed. Thus a new ground of rejection of Applicant's admitted prior art in view of Wang, US-PAT-NO: 6,330,078 B1 is made below.

Claim Rejections - 35 USC § 103

3. Claims 1, 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (hereinafter, Admission), and further in view of Wang, US-PAT-NO: 6,330,078 B1, (hereinafter, Wang).

Regarding, **claim 1**, the Admission teaches a method of converting a first gamut in CMY space to a first gamut in CMYK color space through a UCR method, which reads on "a method comprising: converting a first gamut in a CMY color space to a first gamut in a CMYK color space", (see page 1, lines 5-25 and page 2, lines 1-11).

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Admission does not expressly disclose, "converting the first gamut in CMYK color space to a gamut in a color space having a lightness component;" "rescaling a lightness component of a gamut value in the color space having a lightness component to form a modified gamut;" and "converting the modified gamut to a second gamut in a CMYK color space".

However, Wang, as shown in figure 1, depicts in block (24) a transform (T) for converting a first CMYK gamut, (i.e. CMYK₁) into a CIELAB gamut, (i.e. Lab₁) having a lightness component (i.e. L), which reads on "converting the first gamut in CMYK color space to a gamut in a color space having a lightness component", (col. 4, lines 20-22 and col. 4, lines 44-50).

Additionally, Wang depicts converting the first CIELAB gamut (Lab₁) into a modified CIELAB gamut (28) (Lab₂), which reads on "rescaling a lightness component of a gamut value in the color space having a lightness component to form a modified gamut; and", (col. 4, lines 50-54).

Finally, Wang depicts the inverse transform (30) converting the modified CIELAB color space (Lab₂) into a second CMYK color gamut (CMYK₂) by an equation wherein

$$CMYK_2 = T^{-1}(Lab_0-\Delta Lab)$$
,

which reads on "converting the modified gamut to a second gamut in a CMYK color space", (col. 4, 34-38 and col. 4, lines 53-57).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to modify Admission in view of Wang.

One of ordinary skill in the art would have been motivated to use Wang's three-stage color gamut conversion in order to provide a CMYK₂ with a more accurate representation of Lab₀, given the express suggestion of Wang, (col. 4, lines 56-57).

Regarding, claim 11-12, please refer to the corresponding rejection in claim 1.

Regarding, claim 14, it is obvious Wang teaches the claimed subject matter, "linearly rescaling the lightness component of the CIELAB space gamut" as it is well-known that subtraction is a linear operation such as in (Lab₀- Δ Lab), (col. 4, lines 35-37).

Regarding, claim 22, please refer to the corresponding rejection in claim 14.

Allowable Subject Matter

- 4. Claims 2-3, 15 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 4-6 are allowed. Claim 4 is allowed because of the prior art of record, specifically Wang, US-PAT-NO: 6,330,078 does not teach or suggest the collective features of the invention, such as the step of modifying the gamut in the CIELAB color space by changing a lightness component such that the upper surface of the first gamut in the CMY space is preserved and the lower surface of the first gamut in the CMY color space is mapped to the bottom surface of the gamut of a full CMYK color space to form a gamut in an expanded CIELAB color space.

 Claims 5-6 are allowed for depending on allowable subject matter in claim 4.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie M Vida whose telephone number is (703) 306-4220. The examiner can normally be reached on 8:30 am 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A Williams can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SUPERVISORY PATENT EXAMINER

July 2, 2004